

WEST Search History

Hide Items

Restore

Clear

Cancel

DATE: Monday, March 01, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Coun</u>
	<i>DB=PGPB,USPT,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L6	express\$ same plant and (replicon and plus adj strand same RNA? and (viral or virus) same (helper adj virus\$)) and (movement adj protein?)	
<input type="checkbox"/>	L5	express\$ and plant and (replicon same plus adj strand same RNA? and (viral or virus) same (helper adj virus\$))	
<input type="checkbox"/>	L4	express\$ same plant and (replicon same plus adj strand same RNA? and (viral or virus) same (helper adj virus\$))	
<input type="checkbox"/>	L3	express\$ same plant and (replicon same plus adj strand same RNA? same (viral or virus) same (helper adj virus\$))	
<input type="checkbox"/>	L2	express\$ same plant same (replicon same plus adj strand same RNA? same (viral or virus) same (helper adj virus\$))	
<input type="checkbox"/>	L1	turpen-thomas-h.in.	

END OF SEARCH HISTORY

Refine Search

Search Results -

Term	Documents
PLANT	451009
PLANTS	223639
REPLICON	5313
REPLICONS	1829
PLUS	405125
PLU	967
STRAND	120692
STRANDS	100585
VIRAL	88516
VIRALS	577
VIRUS	111727
(EXPRESS\$ SAME PLANT AND (REPLICON AND PLUS ADJ STRAND SAME RNA? AND (VIRAL OR VIRUS) SAME (HELPER ADJ VIRUS\$)) AND (MOVEMENT ADJ PROTEIN?)).PGPB,USPT,EPAB,DWPI,TDBD.	0

There are more results than shown above. [Click here to view the entire set.](#)

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Monday, March 01, 2004 [Printable Copy](#) [Create Case](#)

Set
Name
side by

Query

Hit
Count

Set
Nam

h e b b cg b e e ch

side

result

DB=PGPB,USPT,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ

<u>L6</u>	express\$ same plant and (replicon and plus adj strand same RNA? and (viral or virus) same (helper adj virus\$)) and (movement adj protein?)	0	<u>L6</u>
<u>L5</u>	express\$ and plant and (replicon same plus adj strand same RNA? and (viral or virus) same (helper adj virus\$))	0	<u>L5</u>
<u>L4</u>	express\$ same plant and (replicon same plus adj strand same RNA? and (viral or virus) same (helper adj virus\$))	0	<u>L4</u>
<u>L3</u>	express\$ same plant and (replicon same plus adj strand same RNA? same (viral or virus) same (helper adj virus\$))	0	<u>L3</u>
<u>L2</u>	express\$ same plant same (replicon same plus adj strand same RNA? same (viral or virus) same (helper adj virus\$))	0	<u>L2</u>
<u>L1</u>	turpen-thomas-h.in.	52	<u>L1</u>

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 12:33:05 ON 01 MAR 2004

=> file agriculture bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FILE 'AGRICOLA' ENTERED AT 12:33:22 ON 01 MAR 2004

FILE 'BIOBUSINESS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Biological Abstracts, Inc. (BIOSIS)

FILE 'BIOCOMMERCE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 BioCommerce Data Ltd. Richmond Surrey, United Kingdom. All rights reserved

FILE 'BIOSIS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'BIOTECHNO' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'CABA' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)

FILE 'CAPLUS' ENTERED AT 12:33:22 ON 01 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CBNB' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (c) 2004 ELSEVIER ENGINEERING INFORMATION, INC.

FILE 'CIN' ENTERED AT 12:33:22 ON 01 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'CONFSCI' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'CROPB' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'CROPU' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DISSABS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved.

FILE 'ESBIOBASE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'FEDRIP' ENTERED AT 12:33:22 ON 01 MAR 2004

FILE 'FOMAD' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FOREGE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FROSTI' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FSTA' ENTERED AT 12:33:22 ON 01 MAR 2004

COPYRIGHT (C) 2004 International Food Information Service

FILE 'GENBANK' ENTERED AT 12:33:22 ON 01 MAR 2004

FILE 'IFIPAT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 IFI CLAIMS(R) Patent Services (IFI)

FILE 'INVESTEXT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Thomson Financial Services, Inc. (TFS)

FILE 'LIFESCI' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'NAPRALERT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Board of Trustees of the University of Illinois,
University of Illinois at Chicago.

FILE 'NTIS' ENTERED AT 12:33:22 ON 01 MAR 2004
Compiled and distributed by the NTIS, U.S. Department of Commerce.
It contains copyrighted material.
All rights reserved. (2004)

FILE 'PASCAL' ENTERED AT 12:33:22 ON 01 MAR 2004
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2004 INIST-CNRS. All rights reserved.

FILE 'PHIC' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHIN' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PROMT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Gale Group. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT 2004 THOMSON ISI

FILE 'USPATFULL' ENTERED AT 12:33:22 ON 01 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:33:22 ON 01 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'ADISCTI' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'ADISINSIGHT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'ADISNEWS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'ANABSTR' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (c) 2004 THE ROYAL SOCIETY OF CHEMISTRY (RSC)

FILE 'AQUASCI' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT 2004 FAO (On behalf of the ASFA Advisory Board). All rights reserved.

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'CANCERLIT' ENTERED AT 12:33:22 ON 01 MAR 2004

FILE 'CEABA-VTB' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (c) 2004 DECHEMA ev

FILE 'CEN' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'DDFB' ACCESS NOT AUTHORIZED

FILE 'DDFU' ACCESS NOT AUTHORIZED

FILE 'DGENE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DRUGB' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DRUGMONOG2' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'IMSDRUGNEWS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'DRUGU' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'IMSRESEARCH' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'EMBAL' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'EMBASE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'HEALSAFE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'IMSPRODUCT' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'JICST-EPLUS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'KOSMET' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 International Federation of the Societies of Cosmetics Chemists

FILE 'MEDICONF' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (c) 2004 FAIRBASE Datenbank GmbH, Hannover, Germany

FILE 'MEDLINE' ENTERED AT 12:33:22 ON 01 MAR 2004

FILE 'NIOSHTIC' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 U.S. Secretary of Commerce on Behalf of the U.S. Government

FILE 'NUTRACEUT' ENTERED AT 12:33:22 ON 01 MAR 2004
Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'OCEAN' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'PCTGEN' ENTERED AT 12:33:22 ON 01 MAR 2004

COPYRIGHT (C) 2004 WIPO

FILE 'PHAR' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHARMAML' ENTERED AT 12:33:22 ON 01 MAR 2004
Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'RDISCLOSURE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Kenneth Mason Publications Ltd.

FILE 'SYNTHLINE' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 Prous Science

FILE 'TOXCENTER' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 ACS

FILE 'VETB' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'VETU' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPIDS' ENTERED AT 12:33:22 ON 01 MAR 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s express (s) plant and (replicon and plus (w) strand (s) RNA and (viral or virus) (s)
(helper (w) virus?) and (movement (w) protein#)
UNMATCHED LEFT PARENTHESIS 'AND (REPLICON'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s express (s) plant and (replicon and plus (w) strand (s) RNA and (viral or virus)
and) (helper (w) virus?) and (movement (w) protein#)
MISSING TERM 'AND) '
The search profile that was entered contains a logical operator
followed immediately by a right parenthesis ') '.

=> s express (s) plant and ((replicon and plus (w) strand) (s) RNA) and (viral or virus)
(s) (helper (w) virus?)) and (movement (w) protein#)
UNMATCHED RIGHT PARENTHESIS 'VIRUS?)) AND'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s express (s) plant and ((replicon and plus (w) strand) (s) RNA and (viral or virus)
(s) (helper (w) virus?)) and (movement (w) protein#)
PROXIMITY OPERATION NOT ALLOWED
Certain operators may not be nested in combination with other
operators. A nested operator is valid only when it occurs at the same
level or above the operator outside the nested phrase as determined by
the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W)
is above (L) on the precedence list. However,
'((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L)
is below (A) on the precedence list. The only exception is the 'OR'

operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR) (W) REACTOR' is valid.

=> s express (s) plant and ((replicon? (s) plus (w) strand) and RNA and ((viral or virus) (s) (helper (w) virus?))) and (movement (w) protein#)

L1 0 FILE AGRICOLA
L2 0 FILE BIOBUSINESS
L3 0 FILE BIOCOMMERCE
L4 0 FILE BIOSIS
L5 0 FILE BIOTECHNO
L6 0 FILE CABA
L7 0 FILE CAPLUS
L8 0 FILE CBNB
L9 0 FILE CIN
L10 0 FILE CONFSCI
L11 0 FILE CROPB
L12 0 FILE CROPU
L13 0 FILE DISSABS
L14 0 FILE ESBIODASE

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'EXPRESS (S) PLANT'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'REPLICON? (S) PLUS'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'VIRUS) (S) '

L15 0 FILE FEDRIP
L16 0 FILE FOMAD
L17 0 FILE FOREGE
L18 0 FILE FROSTI
L19 0 FILE FSTA
L20 0 FILE GENBANK
L21 1 FILE IFIPAT
L22 0 FILE INVESTEXT
L23 0 FILE LIFESCI
L24 0 FILE NAPRALERT
L25 0 FILE NTIS
L26 0 FILE PASCAL
L27 0 FILE PHIC
L28 0 FILE PHIN
L29 0 FILE PROMT
L30 0 FILE SCISEARCH
L31 1 FILE USPATFULL
L32 0 FILE USPAT2
L33 0 FILE ADISCTI
L34 0 FILE ADISINSIGHT
L35 0 FILE ADISNEWS
L36 0 FILE ANABSTR
L37 0 FILE AQUASCI
L38 0 FILE BIOTECHDS
L39 0 FILE CANCERLIT
L40 0 FILE CEABA-VTB
L41 0 FILE CEN
L42 0 FILE DGENE
L43 0 FILE DRUGB
L44 0 FILE DRUGMONOG2
L45 0 FILE IMSDRUGNEWS
L46 0 FILE DRUGU
L47 0 FILE IMSRESEARCH
L48 0 FILE EMBAL
L49 0 FILE EMBASE
L50 0 FILE HEALSAFE
L51 0 FILE IMSPRODUCT
L52 0 FILE JICST-EPLUS
L53 0 FILE KOSMET
L54 0 FILE MEDICONF
L55 0 FILE MEDLINE

L56 0 FILE NIOSHTIC
 L57 0 FILE NUTRACEUT
 L58 0 FILE OCEAN
 L59 0 FILE PCTGEN
 L60 0 FILE PHAR
 L61 0 FILE PHARMAML
 L62 0 FILE RDISCLOSURE
 L63 0 FILE SYNTHLINE
 L64 0 FILE TOXCENTER
 L65 0 FILE VETB
 L66 0 FILE VETU
 L67 0 FILE WPIDS

TOTAL FOR ALL FILES

L68 2 EXPRESS (S) PLANT AND ((REPLICON? (S) PLUS (W) STRAND) AND RNA
 AND ((VIRAL OR VIRUS) (S) (HELPER (W) VIRUS?))) AND (MOVEMENT
 (W) PROTEIN#)

=> d 168 1-2 ibib abs

L68 ANSWER 1 OF 2 IFIPAT COPYRIGHT 2004 IFI on STN
 AN 03764727 IFIPAT;IFIUDB;IFICDB
 TITLE: VIRAL AMPLIFICATION OF RECOMBINANT MESSENGER
RNA IN TRANSGENIC PLANTS
 INVENTOR(S): Turpen; Thomas H., Vacaville, CA
 PATENT ASSIGNEE(S): Large Scale Biology Corporation, Vacaville, CA
 PRIMARY EXAMINER: Fox, David T
 AGENT: Chiang, Robin C.
 Gallegos, Thomas
 Halluin, Albert P.

	NUMBER	PK	DATE
PATENT INFORMATION:	US 6462255	B1	20021008
APPLICATION INFORMATION:	US 1999-414916		19991008
EXPIRATION DATE:	30 Dec 2012		

	APPLN. NUMBER	DATE	GRANTED PATENT NO. OR STATUS
CONTINUATION of:	US 1992-997733	19921230	ABANDONED
CONTINUATION of:	US 1994-336724	19941109	5965794
FAMILY INFORMATION:	US 6462255	20021008	
	US 5965794		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	CHEMICAL		
	GRANTED		

NOTE: This Patent is subject to a Terminal Disclaimer.
 MICROFILM REEL NO: 013064 FRAME NO: 0667
 NUMBER OF CLAIMS: 31
 GRAPHICS INFORMATION: 8 Drawing Sheet(s), 10 Figure(s).

AB A novel method of over expressing genes in plants is provided. This method is based on the **RNA** amplification properties of **plus strand RNA viruses** of plants. A chimeric multicistronic gene is constructed containing a plant promoter, **viral** replication origins, a **viral movement protein** gene, and one or more foreign genes under control of **viral** subgenomic promoters. Plants containing one or more of these recombinant **RNA** transcripts are inoculated with **helper virus**. In the presence of **helper virus** recombinant transcripts are replicated producing high levels of foreign gene **RNA**. Sequences are provided for the high level expression of the enzyme chloramphenicol acetyltransferase in tobacco plants by **replicon RNA** amplification with **helper viruses** and **movement protein** genes derived from the tobamovirus group.

NTE This Patent is subject to a Terminal Disclaimer.

CLMN 31

GI 8 Drawing Sheet(s), 10 Figure(s).

L68 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 2002:262507 USPATFULL

TITLE: Viral amplification of recombinant messenger
RNA in transgenic plants

INVENTOR(S): Turpen, Thomas H., Vacaville, CA, United States

PATENT ASSIGNEE(S): Large Scale Biology Corporation, Vacaville, CA, United
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6462255	B1	20021008
APPLICATION INFO.:	US 1999-414916		19991008 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-336724, filed on 9 Nov 1994, now patented, Pat. No. US 5965794 Continuation of Ser. No. US 1992-997733, filed on 30 Dec 1992, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Fox, David T.		
LEGAL REPRESENTATIVE:	Halluin, Albert P., Gallegos, Thomas, Chiang, Robin C.		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	785		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel method of over expressing genes in plants is provided. This method is based on the **RNA** amplification properties of **plus strand RNA viruses** of plants. A chimeric multicistronic gene is constructed containing a plant promoter, **viral** replication origins, a **viral movement protein** gene, and one or more foreign genes under control of **viral** subgenomic promoters. Plants containing one or more of these recombinant **RNA** transcripts are inoculated with **helper virus**. In the presence of **helper virus** recombinant transcripts are replicated producing high levels of foreign gene **RNA**. Sequences are provided for the high level expression of the enzyme chloramphenicol acetyltransferase in tobacco plants by **replicon RNA** amplification with **helper viruses** and **movement protein** genes derived from the tobamovirus group.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>